

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An elastomeric stamp for printing a pattern on a substrate with an ink the stamp being at least partially formed from a first material, the stamp comprising a first surface in a first plane, a second surface in a second plane and a third surface extending from the first surface to the second surface surface, the third surface being permeable to the ink ink, the first surface comprising a barrier layer being substantially impermeable to the ink ink.

2. (Withdrawn) An The elastomeric stamp as claimed in claim 1, wherein the barrier layer is non-covalently bound to the first surface surface.

3. (Withdrawn) An The elastomeric stamp as claimed in claim 1,
wherein the first barrier layer comprises an inorganic oxide.

4. (Withdrawn) An The elastomeric stamp as claimed in claim 1,
wherein the first barrier layer comprises a polymer material.

5. (Withdrawn) An The elastomeric stamp as claimed in claim 1,
wherein the first barrier layer comprises the first material in a
modified form.

6. (Currently Amended) An The elastomeric stamp as claimed in
claim 1, wherein the second surface comprises a further barrier
layer being substantially impermeable to the ink—ink.

7. (Currently Amended) An The elastomeric stamp as claimed in
claim 6, wherein the first surface and the third surface form an
angle between 60-90°.

8. (Withdrawn) An The elastomeric stamp as claimed in claim 6,
wherein the further barrier layer is of the same material as the
barrier layer layer.

9. (Withdrawn) A method for printing an ink in a pattern on a
substrate of an electronic device using an elastomeric stamp stamp,
the elastomeric stamp being at least partially formed from a first
material, the elastomeric stamp comprising a first surface in a
first plane, a second surface in a second plane and a third surface
extending from the first surface to the second surface surface, the
third surface being permeable to the ink ink, the first surface
comprising a barrier layer being substantially impermeable to the
ink ink, the method comprising the steps acts of:

bringing the elastomeric stamp into contact with a supply of
an ink solution;

absorbing the ink solution in the first material;

cleaning at least the barrier layer of the elastomeric stamp
stamp;

drying the elastomeric stamp stamp; and

forming at least a part of the pattern by placing the elastomeric stamp on the substrate with the barrier layer contacting the substrate and transferring the ink from the first material to the substrate via the third surface surface.

10. (Withdrawn) A The method as claimed in claim 9, wherein the step-act of cleaning at least the barrier layer of the elastomeric stamp comprises rinsing the elastomeric stamp with a solvent.

11. (Withdrawn) A method of producing a patterned elastomeric stamp for printing an ink on a substrate of an electronic device, the method comprising the steps-acts of:

providing a master having a first surface in a first plane, a second surface in a second plane and a third surface extending from the first surface to the second surface surface;

depositing a first material precursor on said surfaces of the master master;

generating an elastomeric stamp having a first surface in a

first plane, a second surface in a second plane and a third surface extending from the first surface to the second surface by transforming the first material precursor to a first material, said surfaces of the elastomeric stamp being permeable to the ink-ink;
and

forming a barrier layer on the first surface of the elastomeric stamp the barrier layer being impermeable to the ink-ink.

12. (Withdrawn) A-The method as claimed in claim 11, wherein the step-act of forming a barrier layer on the first surface of the elastomeric stamp comprises anisotropically depositing a metal on the first surface of the elastomeric stamp-stamp.

13. (Withdrawn) A-The method as claimed in claim 12, further comprising the step-act of oxidizing the barrier layer-layer.

14. (Withdrawn) A-The method as claimed in claim 11, wherein the step-act of forming a barrier layer on the first surface of the

elastomeric stamp comprises forming a layer of polymer material on the first surface of the elastomeric stamp stamp.

15. (Withdrawn) A The method as claimed in claim 14, wherein the step—act of forming a layer of a polymer material on the first surface of the elastomeric stamp comprises adhering a polymer material to the first surface of the elastomeric stamp stamp.

16. (Withdrawn) A The method as claimed in claim 14, wherein the step—act of forming a layer of a polymer material on the first surface of the elastomeric stamp comprises depositing a precursor of the polymer material on the first surface of the elastomeric stamp stamp; and

forming the layer of the polymer material from the precursor.

17. (Withdrawn) A The method as claimed in claim 16, wherein the step—act of forming the layer of the polymer material from the precursor is preceded by depositing a polymerization initiator on the first surface of the elastomeric stamp stamp.

18. (Withdrawn) A-The method as claimed in claim 14, further comprising the steps-acts of:
modifying the first surface of the master master; and
depositing a precursor of the polymer material on the modified first surface of the master master.

19. (Withdrawn) A-The method as claimed in claim 11, wherein the step-act of forming a layer of a second material on the first surface comprises modifying a layer of the first material at the first surface-surface.

20. (Withdrawn) A-The method as claimed in claim 11, further comprising the step-act of forming a further barrier layer on the second surface of the elastomeric stamp stamp, the further barrier layer being impermeable to the ink.

21. (Withdrawn) A-The method as claimed in claim 20, wherein the further barrier layer is formed from a same material as the

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| barrier-layer layer.